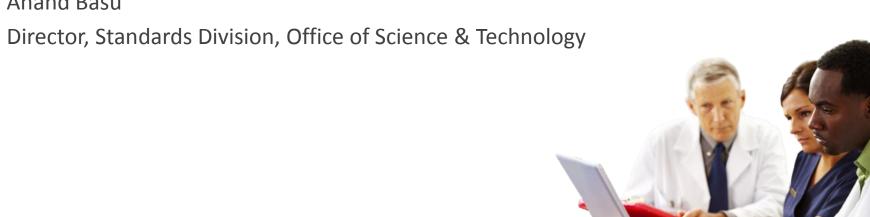


Standards & Interoperability Framework: An Overview

Anand Basu



Five Broad Goals for "Meaningful Use"



The vision for meaningful use is to enable significant and measurable improvements in population health through a transformed health care delivery system.

The 5 overarching goals are as follows:

- 1. Improve quality, safety and efficiency
- 2. Engage patients and their families
- 3. Improve care coordination
- 4. Improve population and public health and reduce disparities in care
- 5. Ensure privacy and security protections

Adapted from National Priorities Partnership. National Priorities and Goals: Aligning Our
Efforts to Transform America's Healthcare.

Washington, DC: National Quality Forum: 2008

Washington, DC: National Quality Forum; 2008.

Are standards necessary? Is interoperability important?

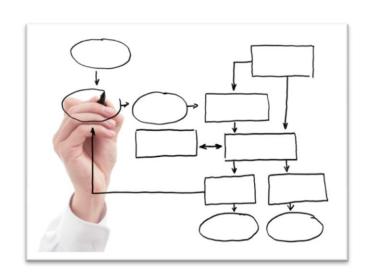


- Standards can be the basis for innovation
- Meaningful use Stage 2 certification requires the EHR to share information
 - Care Summary and relevant documentation
 - Ability to view, download, and <u>transmit</u>
- 3 dependent activities, all requiring Community
 - Standards and Interoperability
 - Implementation Guides
 - Testing and Certification

ONC's Guiding Principles



- Interoperability is a journey, not a destination
- Leverage government as a platform for innovation to create conditions of interoperability
- Health information exchange is not one-size-fits-all
- Build in incremental steps "don't let the perfect be the enemy of the good"

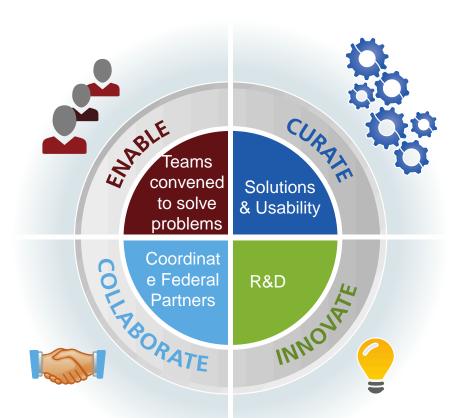


Office of Science & Technology



Enable stakeholders

to come up with simple, shared solutions to common information exchange challenges



Curate a portfolio of standards, services, and policies that accelerate information exchange

Collaborate with federal agencies to coordinate federal health IT priorities as manager of Federal Health Architecture

Support Innovation through SHARP program, Innovation/Challenge Grants, and interfacing with international Standards community

What is the S&I Framework?



- •The Standards and Interoperability (S&I)
 Framework represents one investment and approach adopted by the Office of Science & Technology (OST) to fulfill its charge of prescribing health IT standards and specifications to support national health outcomes and healthcare priorities.
- •The S&I Framework is an example of "government as a platform"— enabled by integrated functions, processes, and tools for the open community of implementers and experts to work together to develop and harmonize health information exchange standards.



Why the S&I Framework Approach?



S&I Framework Approach:

- Creates a collaborative, coordinated <u>incremental</u> standards process,
 - Guided by ONC, with input from Federal Advisory Committees,
 - Enabled and led by the an <u>open</u> community of industry participants who are interested in solving <u>real world</u> problems

Value created through this approach:

- Solves real-world issues to enable health information exchange
- Harnesses the expertise and passion of the community to solve problems
- Empowers the community to create the best solutions for interoperability and standards adoption

ONC's Standards "Stack"



Vocabulary & Code Sets

How should well-defined values be coded so that they are universally understood?

Content Structure

How should the message be formatted so that it is computable?

Transport

How does the message move from A to B?

Security

How do we ensure that messages are secure and private?

Services

How do health information exchange participants find each other?

S&I Initiative Portfolio Snapshot



	Pre-Discovery Subsection Services Services Pre-Discovery Services Services Pre-Discovery Services Pre-Discovery Services		
Direct Project (S&I Archetype)			
Transitions of Care	Pilots Underway		
Lab Results Interface	2 nd IG Ballot Publication (4/9/12)		
Query Health	Plan to begin piloting in April 2012		
Provider Directories	Looking at potential pilots and reference implementation		
Data Segmentation for Privacy	Targeting completion of pilot(s) and initial evaluation by September 2012		
Public Health Reporting	Community-Led initiative		
esMD	1 st (of 3) use cases consensus-approved; Targeting completion of pilot(s) and initial evaluation by October 2012		
Longitudinal Coordination of Care	Working on Extension of the ToC Use Case for LCC (reuse); Limited Support Initiative		
Laboratory Orders Interface	Use Case Reached Consensus In August 2012		
Health eDecisions	Developing Two Use Cases: Artifact Sharing and Guidance Service		
Automate Blue Button (ABBI)	S&I Community launched August 2012		

Current S&I Initiatives: Operating Metrics



How long has it been?

Framework Launch Date	Jan 7, 2011
First Initiatives Launched	Jan 31, 2011
Elapsed Time (as-of today)	17 months

How much effort have we put in?

# Wiki Registrants	1268
# Committed Members	502
# Committed Organizations	376
# Working Sessions Held	799
# Days Between Sessions*	0.5

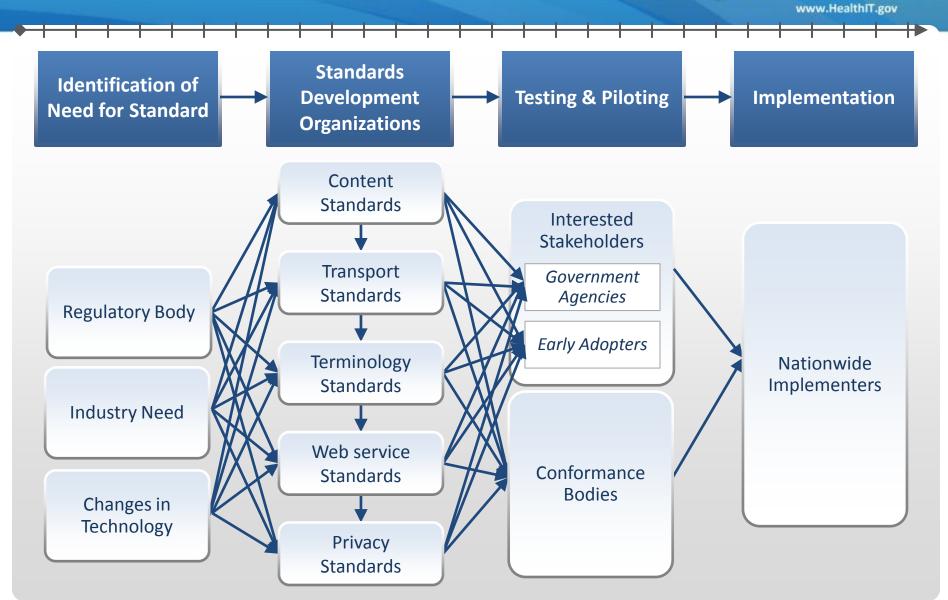
How much have we accomplished?

# Use Case Artifacts	33
# Harmonized Segments/Sections	150
# RI/Test Artifacts	64
# Pilots Committed or In Discovery	20+
# Pilot Vendors	25+
# Pilot Healthcare Organizations (e.g. hospitals, HIEs)	35+
HL7 Ballots	3
# Ballot Comments Received	1,854
# Ballot Comments Resolved	1,479

Standards Development before the S&I Framework

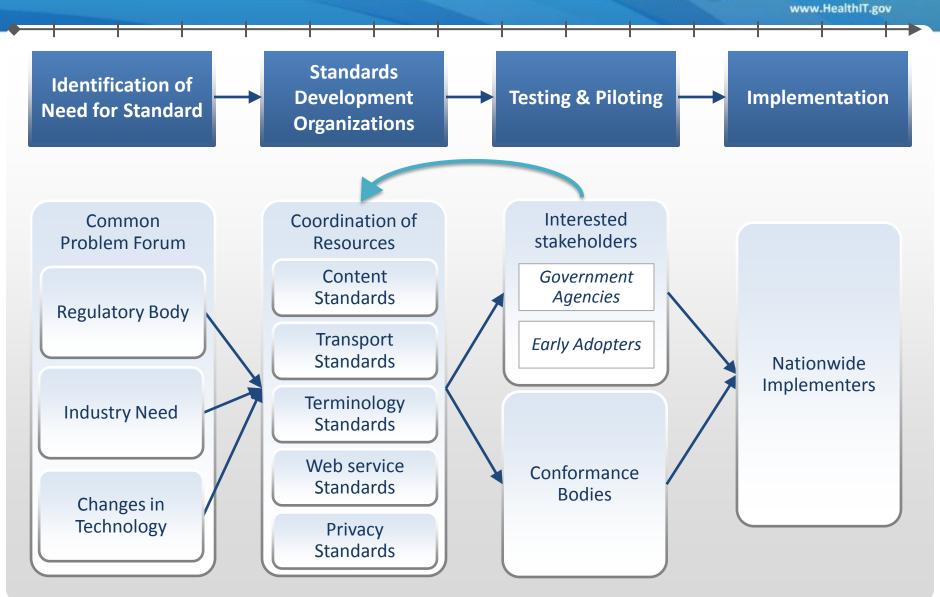
Disparate entities with a lifecycle ranging from 18-36 months Putting the I in Health



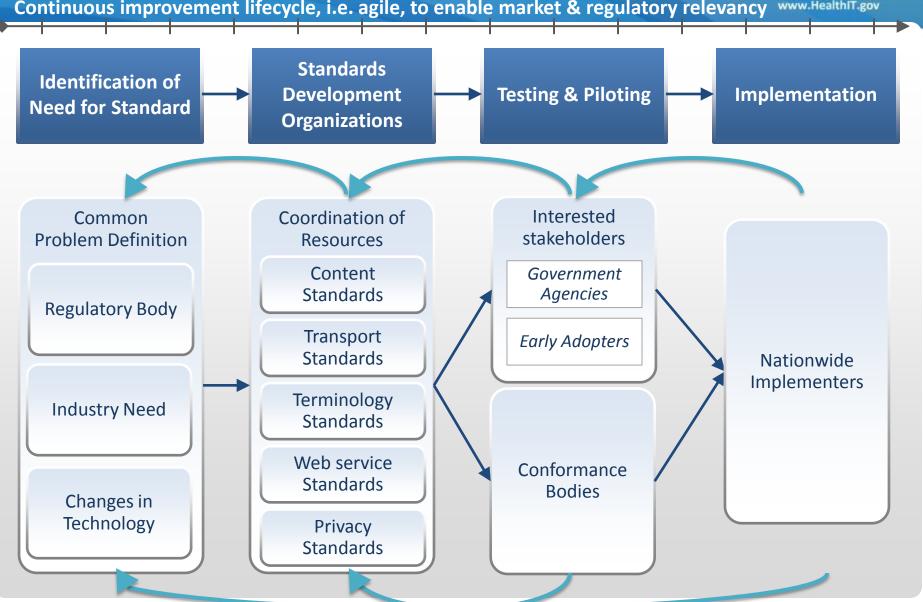


Standards Development with the S&I Framework

Coordinated entities with a lifecycle ranging from 9-18 months Putting the I in Health IT

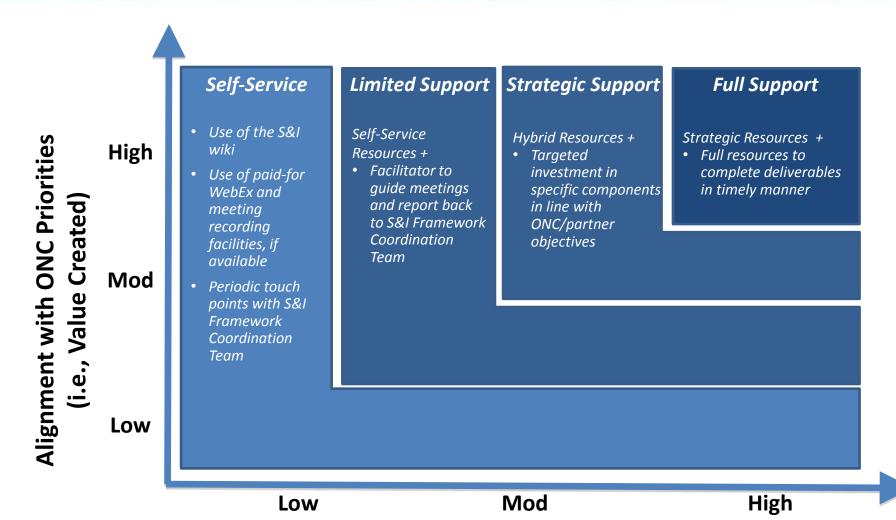


Standards Development with the S&I Framework and future planned improvements Continuous improvement lifecycle, i.e. agile, to enable market & regulatory relevancy www.HealthIT.gov



How do we support S&I initiatives?

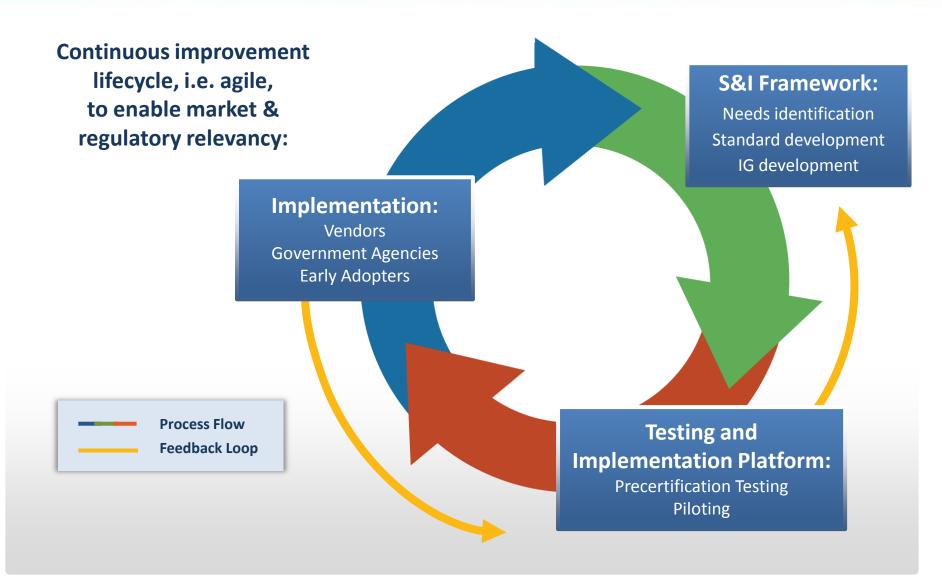




Unique Impact of S&I Framework (i.e., Degree of Platform Reuse)

Standards Development with the S&I Framework and *future planned improvements*Putting the I in





Future Direction of S&I Framework



- ONC's commitment to support the community and accelerate the standards development process will continue. The HITECH Act has given ONC the responsibility to support standards and certification criteria now and in the future.
- We are working within the community to find new ways to support the overall community.
 - Working with CHCF to develop a new standard for lab ordering interfaces, in which we provide additional coordination resources and a place for national discussions to occur
 - The VA is supporting the new blue button initiative with support from the white house for a presidential innovation fellow
 - We anticipate additional novel ways to accelerate both the standards development AND the implementation and precertification testing

We are on a journey together!

Questions/Discussion



Learn more at:

ONC website:

www.healthit.hhs.gov/

S&I Framework wiki:

http://wiki.siframework.org



